

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090519\
 Data File : VN057694.D
 Acq On : 5 Sep 2019 10:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 8:26:08 AM

Quant Time: Sep 06 01:33:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	60477	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	368659	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	313840	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	194207	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	12.40	95	157662	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	10.09	98	470239	31.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	91571	21.017	ug/l 96
3) Chloromethane	2.05	50	94710	20.612	ug/l 98
4) Vinyl Chloride	2.18	62	74188	19.744	ug/l 91
5) Bromomethane	2.54	94	51330	21.368	ug/l 98
6) Chloroethane	2.69	64	55307	20.157	ug/l 90
7) Trichlorofluoromethane	3.01	101	147590	20.509	ug/l 92
8) Diethyl Ether	3.40	74	49166	20.771	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	80672	21.571	ug/l 97
10) 1,1-Dichloroethene	3.73	96	68943	20.207	ug/l 94
11) Methyl Iodide	3.94	142	94516	20.005	ug/l 96
12) Methyl Acetate	4.30	43	100742	19.777	ug/l 98
13) Acrolein	3.59	56	23845	82.498	ug/l 95
14) Acrylonitrile	4.96	53	183197	98.814	ug/l 98
15) Acetone	3.79	58	57346	110.273	ug/l 99
16) Carbon Disulfide	4.04	76	165805	19.345	ug/l 100
17) Allyl chloride	4.31	41	141522	19.421	ug/l 92
18) Methylene Chloride	4.54	84	84421	19.746	ug/l 92
19) trans-1,2-Dichloroethene	5.02	96	72495	20.087	ug/l 97
20) Diisopropyl ether	5.93	45	320963	20.441	ug/l 98
21) 1,1-Dichloroethane	5.83	63	164413	20.314	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	91367	20.727	ug/l 98
23) tert-Butyl Alcohol	4.75	59	64317m	95.408	ug/l
24) Methyl tert-Butyl Ether	5.02	73	276644	20.406	ug/l 99
25) Chloroform	7.36	83	171322	20.421	ug/l 97
26) Cyclohexane	7.64	56	138916	20.157	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	116621	19.810	ug/l 98
30) 2-Butanone	6.81	43	285865	102.794	ug/l # 98
31) 2,2-Dichloropropane	6.81	77	149022	20.453	ug/l # 75
32) 1,1,1-Trichloroethane	7.56	97	145939	20.024	ug/l 98
33) Carbon Tetrachloride	7.76	117	114819	19.400	ug/l 96
34) Benzene	8.03	78	340186	20.117	ug/l 98
35) Methacrylonitrile	7.16	41	49700m	19.509	ug/l
36) 1,2-Dichloroethane	8.11	62	150028	19.908	ug/l # 100
37) Trichloroethene	8.83	130	79483	19.795	ug/l 97
38) Methylcyclohexane	9.07	83	133704	20.467	ug/l 98
39) 1,2-Dichloropropane	9.11	63	93655	20.253	ug/l 97
40) Dibromomethane	9.20	93	60274	20.108	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	127158	19.626	ug/l #	98
42) Vinyl Acetate	5.87	43	1277901	104.548	ug/l	99
43) Ethyl Acetate	6.91	43	116707	20.380	ug/l #	86
44) Isopropyl Acetate	8.15	43	202363	18.902	ug/l	98
45) 1,4-Dioxane	9.19	88	26356	383.494	ug/l	92
46) Methyl methacrylate	9.19	41	104529	20.122	ug/l	99
47) n-amyl Acetate	12.07	43	146124	17.599	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	131183	19.303	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	141065	19.455	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	81444	20.146	ug/l	98
51) Ethyl methacrylate	10.43	69	124679	18.918	ug/l	98
52) 1,3-Dichloropropane	10.70	76	143103	19.887	ug/l	99
53) Dibromochloromethane	10.90	129	77920	18.467	ug/l	98
54) 1,2-Dibromoethane	11.00	107	79432	19.655	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	157194	75.491	ug/l	99
56) Bromoform	12.13	173	45581	17.421	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	586168	105.685	ug/l	99
59) 2-Hexanone	10.75	43	398109	101.434	ug/l	100
61) Tetrachloroethene	10.63	164	76218	21.150	ug/l	95
62) Toluene	10.15	91	367873	20.877	ug/l	100
64) Chlorobenzene	11.43	112	206603	19.968	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	77665	20.489	ug/l	99
66) Ethyl Benzene	11.51	91	415777	21.109	ug/l	99
67) m/p-Xylenes	11.62	106	281935	40.813	ug/l	98
68) o-Xylene	11.95	106	138441	20.127	ug/l	97
69) Styrene	11.96	104	210325	19.077	ug/l	99
70) Isopropylbenzene	12.25	105	391263	20.738	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	101063	20.359	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	91042m	19.501	ug/l	
73) Bromobenzene	12.53	156	78313	19.587	ug/l	94
74) n-propylbenzene	12.59	91	418786	20.052	ug/l	100
75) 2-Chlorotoluene	12.68	91	261298	19.984	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	321480	20.525	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	25213	17.692	ug/l	99
78) 4-Chlorotoluene	12.77	91	228936	18.429	ug/l	100
79) tert-butylbenzene	12.99	119	265448	19.733	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	298155	20.260	ug/l	99
81) sec-Butylbenzene	13.17	105	345256	19.917	ug/l	99
82) p-Isopropyltoluene	13.29	119	289434	19.658	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	107207	17.905	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	98425	17.412	ug/l	98
85) n-Butylbenzene	13.62	91	257514	19.898	ug/l	99
86) Hexachloroethane	13.88	117	51623	19.376	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	98591	17.847	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11485	15.782	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	20299	10.605	ug/l	97
90) Hexachlorobutadiene	15.01	225	44828	21.115	ug/l	95
91) Naphthalene	15.13	128	51056	10.270	ug/l	97
92) 1,2,3-Trichlorobenzene	15.30	180	19900	10.700	ug/l	94

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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